AEE/SWD/Yzone/SDR02/15-16

**M. A. R. 57 (Rule 116)**
Measurement Book

No. B 85569
22-0515

Serial No. .....
Name of work Remodeling of SWD BP 026 (B403) from BB Nagara, Kodigehalli to ..... From ..... To H-200 primary drain near Nagarbhavi halli main road in ward No-08 in Yelahanka zone
Name of Contractor or nature of Agency G.L. Yadugiri
Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|
| | | Number | Length | Breadth / Depth | | |
| 1 | 2 | 3 | 4 | 5 / 6 | 7 | 8 |
| | Estimated cost : 160.00 Lakhs | | | | | |
| | Work code : 008-15-00 0072 | | | | | |
| | Commissioner Approval NO: para 14, Dated: 10/10/2014 | | | | | |
| | Administrative Sanction order NO: CE/SWD/Admn/78/2014-15, Dated: 21/10/2014 | | | | | |
| | Technical Sanction Order NO. CE/SWD/TS/62/2014-15, Dated: 21/10/2014 | | | | | |
| | Work Order NO: BBMP/EE/SWD/yz/WO/06/14-15, Dated: 25/03/2015 | | | | | |
| | Cost of Accepted tender : Rs. 1,60,25,984.70/- | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| I. No. (1) | Diversion of water Course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc. Complete 1.75 metres depth L+L Qty. as per premeasurements recorded in the MS Excel spread sheet vide page no. 01 of 19 i.e 466.87 Cum | | | | | | |
| | Qty. as per Schedule 'B' | | | | 462.44 Cum @ | 340-00/Cum = | Rs. 1,57,229-00 |
| | Qty. Received = 466.87 − 462.44 = | | | | 4.43 Cum | | |
| I. No. (2) | Earthwork in excavation for foundation of structures as per drawings and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottoms and backfilling with approved material complete as per specifications | | | | | | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 85570

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Marshy soil - A. manual means upto 3 m depth<br>Qty. as per pre measurements recorded in the MS Excel spreadsheet<br>vide page no. 04 of 19 i.e. 355.49 Cum<br>Qty. as per schedule 'B' 353.34 Cum @ Rs. 120/cum = Rs. 42,400-00<br>Qty. Reserved = 355.49 - 353.34 = 2.15 Cum | | | | | | |
| | Dismantling of existing structures like culverts, Bridges, Retaining walls and other structures Carrying of masonary, cement Concrete, wood work, steel work, including Tap and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. (Prestressed/reinforced Cement Concrete grade M 20 and above) | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page no. 02 of 19 i.e. 31.92 Cum | | | | | | |
| | 31.92 cum @ Rs. 990/cum = | | | | | Rs. | 31,600-00 |
| I.NO.(4) | Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonary, cement concrete, wood work, steel work including T&P and staging wherever necessary sorting the dismantled material, disposal of unserviceable material with all lifts and lead of 100 metres complete as per specification :- ii) Dismantling stone masonary B. Rubble stone masonary in cement mortar. | | | | | | |
| | Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page no. 03 of 19 i.e. 164.85 cum @ Rs. 230 per cum = | | | | | Rs. | 37,915-00 |
| I.NO.(5) | Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonary, Cement | | | | | | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B 85571**

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Concrete, wood work, steel work including T & P and scaffolding wherever necessary sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres complete as per specifications. i) Lime/Cement Concrete I. By manual means: a. Cement concrete grade M-15 & M-20. Qty. as per premeasurements recorded in the MS sheet spreadsheet side page no. 05 of 19 i.e. 135.03 Cum | | | | | | |
| | Qty. as per schedule 'B': i.e. 120.80 Cum @ Rs. 350.00/cum = Rs. | | | | | | 42,280-00 |
| I.No. (6) | Earth work in excavation for foundation of structures as per drawing & technical specifications including sorting and, Constructing | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Excavg & Earthg, removal of stumps & other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. B. mechanical means) Depth upto 3m Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page no. 06 of 19. i.e 1667.59 Cums @ Rs. 44.00 per Cum = Rs. | | | | | | 73,374-00 |
| I.NO. (7) | providing and filling in foundations with granite/ trap broken metal 100 mm and down size with approved sand including hand packing, ramming, watering including cost of all materials and labour with lead upto 30 m & lift of 1.5m Complete as per specifications. Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page No. 07 of 19 i.e | | 235.39 Cums | | | | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 85572

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

| Date | Full description, etc, of work | Number | Dimensions: Length | Dimensions: Breadth | Depth | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Qty. as per schedule 'B' | 226.50 cum @ Rs. | | | 2000/per cum = Rs. | | 4,53,000-00 |
| | Qty. Reserved = 235.39 − 226.50 = 8.89 Cum | | | | | | |
| I.W. (8) | plain cement Concrete M10 with OPC Cement @ 220 kg with Crushed 40 mm and down size graded granite metal Coarse aggregates @ 0.84 cum and fine aggregates @ 0.56 cum in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Complete as per specification. | | | | | | |
| | Qty. as per premeasurement recorded in the MS Excel spread sheet vide page no. 08 of 19 is 117.68 cum | | | | | | |
| | Qty. as per schedule 'B' | 113.25 cum @ | | | Rs. 5300.00 per cum = Rs. | | 6,00,225-00 |
| | Qty. Reserved = 117.68 cum − 113.25 = 4.43 Cum | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| I. NO. 10) | Plain / Reinforced Cement Concrete in open foundation with OPC Cement design mix M35 at 390 kgs, with 20 mm & down size graded granite metal Coarse aggregate @ 0.68 Cum & fine aggregates @ 0.45 Cum with super plasticiser at 3 ltrs confirming to IS: 9103-99 reaffirmed - 2004 complete as per drawing & technical specifications. | | | | | | |
| | Qty. as per premeasurements recorded in the ms Deep spread Sheet vide page no. 11 of 19 | | | | | 391.08 Cum (page no. 11 of 19) | |
| | Qty. as per Schedule 'B' | | | | | 376.75 Cum @ Rs. 6150.00 / Cum = Rs. 23,17,012-00 | |
| | Qty. Reserved = 391.08 - 376.75 = 14.33 Cums | | | | | | |
| I. NO (11) | Design mix M35 with OPC Cement @ 390 kgs, with 20mm and down size graded granite metal Coarse aggregates @ 0.68 Cum and fine aggregates @ 0.45 Cum with Super | | | | | | |

I. NO. (12)

M. A. R. 57 (Rule 116)
Measurement Book

No. B 85573

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Plasticiser @ 3 Ltr conforming to I.S: 9103 - 99 re-affirmed - 2008<br>i) upto 5m height.<br>Qty. as per Premeasurements recorded in the MS Excel spread sheet side page no. 12 of 19 i.e. 185.59 Cum | | | | | | |
| | 185.59 Cum @ Rs. 6900.00 per Cum = | | | | | | Rs. 12,80,433-00 |
| 1 No. (12) | Furnishing and placing reinforced/prestressed Cement Concrete in super structure as per drawing and technical specification Complete as per specification. D. RCC/PSC with OPC Cement design mix M35 at 390 Kgs, with 20 mm & down size graded granite metal Coarse aggregate @ 0.68 Cum & fine aggregates @ 0.45 Cum with super plasticiser at 3 Ltr Conforming to I.S: 9103-99 re-affirmed - 2008. Case - II: Using batching plant, | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Transit mixer and concrete pump height upto 5-cons. Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page No. 17 of 19 i.e. ~~317.66~~ 317.73 cum i.e 317.73 cum | | | | | | |
| | Qty. as per Schedule 'B' 306.93 cum @ Rs. 7000.00/cum = Rs. 21,48,510-00 | | | | | | |
| | Qty. Reserved = 317.73 cum - 306.93 = 10.80 cum | | | | | | |
| I. No. (13) | Supplying, fitting and placing TMT bar reinforcement in Sub-structure as per drawing and technical specifications Complete as per specifications. | | | | | | |
| | Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page No. 10 of 19 i.e. 62.55 MT | | | | | | |
| | 62.55 MT @ Rs. 72,000/MT = Rs. 45,03,600-00 | | | | | | |
| I. No. (14) | Supplying, fitting and placing TMT bar reinforcement in Super-structure Complete as per drawing and technical | | | | | | |

85574

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B**

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Number | Dimensions Length | Dimensions Breadth | Depth | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | specifications. | | | | | | |
| | Qty. as per premeasurements recorded in the MS Excel spread sheet vide page no. 16 of 19 i.e. | | 33.80 | | | | |
| | | | 33.80 MT | | | | |
| | Qty. as per Schedule 'B' | | 33.76 | | | | |
| | | | 33.76 MT @ Rs. 72,000/MT = Rs. 24,30,720-00 | | | | |
| | Qty. Reserved = 33.80 MT - 33.76 MT = 0.04 MT | | | | | | |
| | 33.76 | | | | | | |
| I.NO. (5) | providing 90 mm dia. pvc pipes (10 kgs/cm²) for overall O. Gantry pipe | | | | | | |
| | Qty. as per premeasurements recorded in the MS Excel spread sheet vide page no. 18 of 19 i.e. | | 129.20 Rmt | | | | |
| | Qty. as per Schedule 'B' = | | 120.80 Rmt @ Rs. 340.00/Rmt = Rs. 41,072-00 | | | | |
| | Qty. Reserved = 129.20 - 120.80 = 8.40 Rmt. | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| I. NO. (22) | Collecting, Conveying and disposal of surplus /excavated earth to designated dumping site (15.00 Kms) as directed by the Engineer in charge. Qty. as per premeasurements recorded in the MS Excel spreadsheet vide page no. 19 of 19 ie 833.79 Cum @ Rs. 100.00/cum = Rs. 83,379-00 | | | | | | |
| | Certificates:- Total Rs. 1,42,42,749-00 ~~1,42,75,750.~~ 1,42,42,700 | | | | | | |
| | 1) Certified that the work executed by the contractor is satisfactory | | | | | | |
| | 2) Certified that the Contractor has Completly used RMC only | | | | | | |
| | 3) Certified that the Contractor has removed debris from the work spot. | | | | | | |
| | AE/SWD/42 | | | | | | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 85575

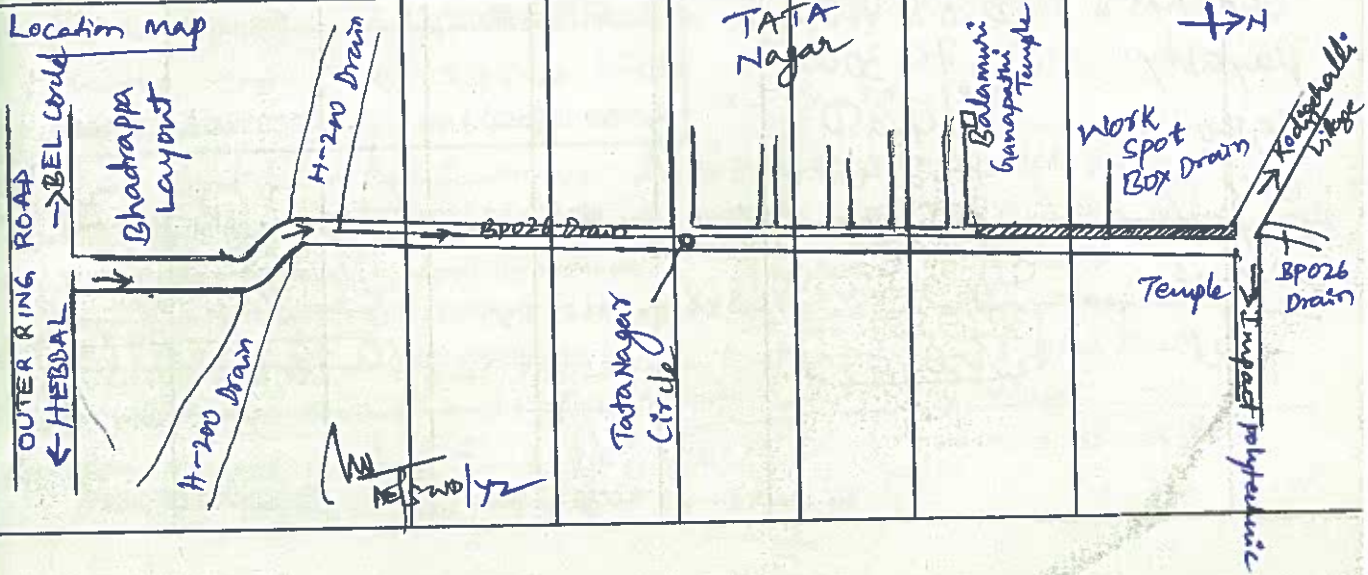
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |



ITC-part bill
BR.NO.43/30-5-2015

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions: Number | Length | Breadth | Depth | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | present bill 1,42,42,700- | | | | | | |
| | IT 1% 1,42,430. | | | | | | |
| | Vat 4% 5,69,710. | | | | | | |
| | Royalty 70,300. | | | | | | |
| | CMF 0.1% 14,250. | | | | | | |
| | LCC 1% 1,42,430. | | | | | | |
| | Recovery Silk Store ~~57,130~~ 57698. | | | | | | |
| | Deduct ~~10,34,250~~ 996848=00 | | | | | | |
| | net 13245852=00 ~~13,32,08,450~~. | | | | | | |

PAID BY CHEQUE / RTGS
Syndicate Bank
Voucher No..... Date.....
Chq./RTGS No..... Rs.....
Account (Sup.) Executive Engineer

Certified and Admitted Rs. 1,42,42,700.
..... 13,245,852.
Pay by cheque/ Rs. ~~13,32,08,450~~.
By adjustment Rs. ~~10,34,250~~ 9,96,848=00
.....
Accts Suptd Executive Engineer